

FORM PTO-1449

ATTY. DOCKET NO.

270/219

SERIAL NO.

10/046,071

LIST OF PATENTS AND OTHER ITEMS FOR APPLICANT'S
INFORMATION DISCLOSURE STATEMENT

APPLICANT:

O'CONNOR, Stephen D., et al.

FILING DATE:

January 11, 2002

GROUP:

1723

(Use several sheets if necessary)

U.S. PATENT DOCUMENTS

EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUB CLASS	FILING DATE
JW	A1	2003/0123322	7/3/03	Chung, et al.	366	165.1	12/31/01
JW	A2	4,946,795	8/7/90	Gibbons, et al.	436	179	8/18/89
	A3						
	A4						
	A5						

FOREIGN PATENT DOCUMENTS

EXAMINER INITIAL		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUB CLASS	TRANSLATION? YES NO
JW	B1	WO 01/78893	10/25/01	WIPO	B01L		
JW	B2	EP 1 123 734 A2	8/16/01	EPO	B01J	19/00	
JW	B3	WO 01/025138	4/12/01	WIPO	B81B	1/00	
	B4						

OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, etc.)

EXAMINER INITIAL		
JW	C1	Groisman, et al., <i>Microfluidic Memory and Control Devices</i> , "Science Magazine," Vol. 300, 9 May 2003, pp. 955-958.
JW	C2	Ehrfeld, et al., <i>Injection of Many Small Substreams of One Component into a Main Stream of Another Component</i> , "Microreactors - New Technology for Modern Chemistry," Vch. Verlagsgesellschaft MbH, 1 st edition, June 15, 2000, pp. 53-55.
	C3	
	C4	

EXAMINER:

Joseph Dodge

DATE CONSIDERED:

9-29-2003

EXAMINER: Initial if reference is considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include a copy of this form with next communication to applicant

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OCT 15 2002

U.S. PATENT DOCUMENTS

EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUB CLASS	FILING DATE
<i>MD</i>	A1	6,136,272	10/24/00	Weigl, et al.	422	82.05	09/26/97
	A2						
	A3						
	A4						
	A5						
	A6						
	A7						
	A8						

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EXAMINER INITIAL		DOCUMENT NUMBER	DATE	COUNTRY	NAME	CLASS- IFICATION	TRANSLATION? YES NO
	B1						
	B2						
	B3						
	B4						
	B5						

OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, etc.)

EXAMINER INITIAL		
	C1	
	C2	
	C3	
	C4	
	C5	

EXAMINER:

Joseph Dodge

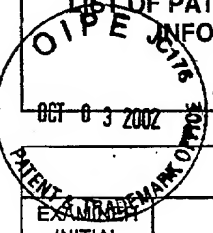
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		FILING DATE: January 11, 2002	GROUP: 1723



U.S. PATENT DOCUMENTS							
EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUB CLASS	FILING DATE
JWP	A1	6,190,034	02/20/01	Nielsen, et al.	366	336	10/01/96
	A2	5,904,424	05/18/99	Schwesinger, et al.	366	336	03/28/96
	A3	5,858,188	01/12/99	Soane, et al.	204	454	04/04/96
	A4	5,698,299	12/16/97	Schmidt, et al.	428	209	05/09/95
	A5	5,534,328	07/09/96	Ashmead, et al.	428	166	12/02/93
JWP	A6	5,070,606	12/10/91	Hoopman, et al.	29	890.09	10/04/89
	A7						
	A8						

FOREIGN PATENT DOCUMENTS								
EXAMINER INITIAL		DOCUMENT NUMBER	DATE	COUNTRY	NAME	CLASS-IFICATION	TRANSLATION? YES NO	
JWP	B1	WO 99/29497 •	06/17/99	WIPO/PCT	Kennedy	B32B 3/00		✓
JWP	B2	WO 98/45693 •	10/15/98	WIPO/PCT	Soane, et al.	G01N 27/26		✓
JWP	B3	WO 97/12665 •	04/10/97	WIPO/ PCT	Nielsen, et al.	B01F 5/00		✓
	B4							
	B5							

EXAMINER INITIAL	OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, etc.)	
JWP	C1	Branbjerg, Jens, et al., "Fast Mixing by Lamination," Proc. Micro Electro Mechanical Systems Workshop, pp. 441-446, IEEE (1996) •
	C2	Miyake, Ryo, et al., "Micro Mixer with Fast Diffusion," Proc. Micro Electro Mechanical Systems Workshop, pp. 248-253, IEEE (1993) •
	C3	Mensing, H., et al., "Microreactor With Integrated Static Mixer and Analysis System," Micro Total Analysis Systems, pp. 237-240, Kluwer, The Netherlands (1995) •
JWP	C4	Larsen, Ulrik D., et al., "Fast Mixing by Parallel Multilayer Lamination," Analytical Methods & Instrumentation, Proc. 2 nd International Symposium Miniaturized Total Analysis Systems μ TAS-96, pp. 228-230 (1996)

EXAMINER: <i>Joseph Dodge</i>	DATE CONSIDERED: <i>9-29-2003</i>
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INFORMATION DISCLOSURE STATEMENT

APPLICANT:

O'Connor, et al.

FILING DATE:

January 11, 2002

GROUP:

Not Yet Assigned

MAR 12 2002

(Use several sheets if necessary)

PATENT & TRADEMARK OFFICE

U.S. PATENT DOCUMENTS

EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUB CLASS	FILING DATE
JND	A1	6,296,020	10/02/01	McNeely, et al.	137	806	10/13/99
	A2	6,264,900	07/24/01	Schubert, et al.	422	224	10/24/96
	A3	6,074,725	06/13/00	Kennedy	428	188	12/10/97
	A4	6,030,581	02/29/00	Virtanen	422	68.1	04/21/98
	A5	6,007,775	12/28/99	Yager	422	57	09/26/97
	A6	6,004,515	12/21/99	Parce, et al.	422	100	10/27/98
	A7	5,922,591	07/13/99	Anderson, et al.	435	287.2	06/27/96
	A8	5,921,678	07/13/99	Desai, et al.	366	336	02/05/98
	A9	5,869,004	02/09/99	Parce, et al.	422	100	06/09/97
	A10	5,842,787	12/01/98	Kopf-Sill, et al.	366	340	10/09/97
	A11	5,771,810	06/30/98	Wolcott	101	483	06/25/97
	A12	5,690,763	11/25/97	Ashmead, et al.	156	60	06/06/95
	A13	5,646,039	07/08/97	Northrup, et al.	435	287.2	06/06/95
JND	A14	5,595,712	01/21/97	Harbster, et al.	422	129	07/25/94

FOREIGN PATENT DOCUMENTS

EXAMINER INITIAL		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUB CLASS	TRANSLATION YES NO
JND	B1	WO 01/28670 *	04/26/01	WIPO	B01F	5/02	
	B2	WO 99/60397 *	11/25/99	WIPO	G01N	33/483	
	B3	WO 99/19717 *	04/22/99	WIPO	G01N	25/22	
	B4	WO 98/56505 *	12/17/98	WIPO	B01L	3/00	
JND	B5	WO 97/00125	01/03/97	WIPO	B01F	5/06	

OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, etc.)

EXAMINER:

Joseph Drotar

DATE CONSIDERED:

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LIST OF PATENTS AND OTHER ITEMS FOR APPLICANT'S INFORMATION DISCLOSURE STATEMENT MAR 12 2002 (Use several sheets if necessary)	APPLICANT: O'Connor, et al.	
	FILING DATE: January 11, 2002	GROUP: Not Yet Assigned

TWO C2 C3 C4 C5 C6 C7 C8 C9 C10 C11		Bertsch, Arnaud, et al., "Static Micromixers Based On Large-Scale Industrial Mixer Geometry," Lab On A Chip, Vol. 1, pp.56-60, 2001 •
		Voldman, Joel, et al., "An Integrated Liquid Mixer/Valve," Journal of Microelectromechanical Sys., Vol. 9, No. 3, Sept. 2000 •
		Weigl, Bernhard H., et al., "Passive Microfluidics - Ultra-low-cost plastic disposable lab-on-a-chip," μ TAS 2000, Twente, the Netherlands, May 14-18, 2000.
		Merkel, Tobias, et al., "A New Technology for Fluidic Microsystems Based on PCB Technology," Sensors and Actuators 77 A:Physical, pp.98-105, 1999 •
		McNeely, Michael R., et al., "Hydrophobic Microfluidics," SPIE Microfluidic Devices & Systems II, Vol. 3877, Sept. 1999 •
		Ehrfeld, Wolfgang et al., "Characterization of Mixing in Micromixers by a Test Reaction: Single Mixing Units and Mixer Arrays," Ind. Eng. Chem. Res. 1999, 38 1075-1082, Jan. 23, 1999 •
		Bökenkamp, Dirk, et al., "Microfabricated Silicon Mixers for Submillisecond Quench-Flow Analysis," Anal. Chem. 70, pp. 232-236, 1998 •
		Shoji, Shuichi, "Fluids for Sensor Systems," Topics in Current Chemistry, Vol. 194, 1998 •
		Knight, James B., et al., "Hydrodynamic Focusing on a Silicon Chip: Mixing Nanoliters in Microseconds," Physical Review Letters, Vol. 80, No. 17, April 27, 1998 •
		Desai, Amish et al., "Microfluidic Sub-millisecond Mixers For The Study of Chemical Reaction Kinetics," Transducers 97 (1997 Int'l Conf. On Solid-State Sensors and Actuators), Vol. 1 pp. 167-70, June 16-19, 1997
		Svasek, P., et al., "Dry Film Resist Based Fluid Handling Components for μ TAS" Institute für Allgemeine Elektrotechnik und Elektronik, Technische Universität Wien. (Undated) •

EXAMINER: Joseph Lodge	DATE CONSIDERED: 4-29-2003
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